

Kaushal, Jemsh

ENTERED



1600

RAW SEQUENCE LISTING

DATE: 08/04/2003

PATENT APPLICATION: US/09/963,693A

TIME: 14:43:17

Input Set : N:\Crf3\RULE60\09963693.raw.txt

Output Set: N:\CRF4\08042003\I963693A.raw

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4 <110> APPLICANT: Ruvkun, Gary
5      Ogg, Scott
8 <120> TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
9      IMPAIRED GLUCOSE TOLERANCE CONDITIONS
12 <130> FILE REFERENCE: 00786/351004
14 <140> CURRENT APPLICATION NUMBER: 09/963,693A
15 <141> CURRENT FILING DATE: 2001-09-25
17 <150> PRIOR APPLICATION NUMBER: 09/205,658
18 <151> PRIOR FILING DATE: 1998-12-03
20 <150> PRIOR APPLICATION NUMBER: 08/857,076
21 <151> PRIOR FILING DATE: 1997-05-15
23 <150> PRIOR APPLICATION NUMBER: 08/888,534
24 <151> PRIOR FILING DATE: 1997-07-07
26 <150> PRIOR APPLICATION NUMBER: US98/10080
27 <151> PRIOR FILING DATE: 1998-05-15
29 <160> NUMBER OF SEQ ID NOS: 328
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 20
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
41 <400> SEQUENCE: 1
42 cgctacggca aaaaagtgaa                                     20
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45 <211> LENGTH: 18
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
52 <400> SEQUENCE: 2
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55 <210> SEQ ID NO: 3
56 <211> LENGTH: 20
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
63 <400> SEQUENCE: 3
64 tgatgcgaac ggcgatcgat                                   20
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 20

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Input Set : N:\Crif3\RULE60\09963693.raw.txt

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69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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77 <210> SEQ ID NO: 5
78 <211> LENGTH: 22
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
85 <400> SEQUENCE: 5
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88 <210> SEQ ID NO: 6
89 <211> LENGTH: 20
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
96 <400> SEQUENCE: 6
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99 <210> SEQ ID NO: 7
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
118 <400> SEQUENCE: 8
119 tgagggccaa ctaaagaaga c                                21
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 20
123 <212> TYPE: DNA
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127 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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132 <210> SEQ ID NO: 10
133 <211> LENGTH: 20
134 <212> TYPE: DNA

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138 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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143 <210> SEQ ID NO: 11
144 <211> LENGTH: 5816
145 <212> TYPE: DNA
146 <213> ORGANISM: Caenorhabditis elegans
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (1)...(5816)
151 <223> OTHER INFORMATION: n = A,T,C or G
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155 ctccccgaaa aaccaacaaa aaacacaagt ttttgaacac ttgtaaatgc agacagaacg 120
156 atgacgagaa tgaatattgt cagatgtcgg agacgacaca aaatttttga aaattttgaa 180
157 gaagagaatc tcggccccgag ctgctcgtcg acgacttcaa caaccgctgc caccgaagct 240
158 ctcggaacaa ccaactgagga tatgaggctt aagcagcagc gaagctcgtc gcgtgccacg 300
159 gagcacgata ttgtcgacgg caatcaccac gacgacgagc acatcacaat gagacggctt 360
160 cgacttgta aaaatttcg cgacgcggcg agaacgacgc ccgattcaag tatggactgc 420
161 tatgaggaaa acccgccatc acaaaaactt caataaatta ttcttggtatt tctaaaaagt 480
162 catcaatgac gtcattaatg cttttactgc tattcgtttt tgtacagccg tgtgcctcaa 540
163 tagtcgaaaa acgatgcggc ccaatcgata ttcgaaatag gccgtgggat attaaagccg 600
164 aatggtcgaa acttgggtgat ccgaacgaaa aagatttggc tggtcagaga atgggtcaact 660
165 gcacagtggg ggaaggttcg ctgacaatct catttgactt gaaacacaag acaaaagcac 720
166 aagaagaaat gcatcgaaat ctacagccaa gatattccca agacgaattt atcacttttc 780
167 cgcatctacg tgaaattact ggaactctgc tcgtttttga gactgaagga ttagtggtatt 840
168 tgcgtaaaaa tttcccaaat cttcgtgtaa ttggaggccg ttcgctgatt caacactatg 900
169 cgctgataat ttatcgaaat ccggttttgg agatcggtct tgacaagctt tccgtaattc 960
170 gaaatgggtg tgtacggata atcgataatc gaaaactgtg ctacacgaaa acgattgatt 1020
171 ggaaacattt gatcacttct tccatcaacg atgtgtcgtg tgataatgct gccgagtacg 1080
172 ctgtcactga gactggattg atgtgcccac gtggagcttg cgaagaggat aaaggcgaat 1140
173 caaagtgtca ttatttggag gaaaagaatc aggaacaagg tgtcgaaaaga gttcagagtt 1200
174 gttggtcgaa caccacttgc caaaagtctt gtgcttatga tcgtcttctt ccaacgaaaag 1260
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177 agtgtatcga aaagtgtgat gctcacctgt accttctcct tcaacgtcgt tgtgtgacct 1440
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179 cggcaggcct ttgctcggat aaatgtcccg atggttatca aatcaaccgg gatgatcatc 1560
180 gagaatgccg aaaatgcgtt ggcaagtgtg agattgtgtg cgagatcaat caggtcattg 1620
181 atacgtttcc gaaggcacag gcgatcaggc tatgcaatat tattgacgga aatctgacga 1680
182 tcgagattcg cggaacacag gattcgggaa tggcgtccga gttgaaggat atatttgcga 1740
183 acattcacac gatcaccggc tacctgttgg tacgtcaatc gtcaccgttt atctcgttga 1800
184 acatgttccg gaatttacga cgtattgagg caaagtcact gttcagaaat ctatatgcta 1860
185 tcacagtttt tgaaaatccg aatttaaaaa agctattcga ttcaacgacg gatttgacgc 1920
186 ttgatcgtgg aactgtgtca attgccaata acaagatgtt atgcttcaag tatatcaagc 1980
187 agctaattgtc aaagttaaat ataccactcg atccgataga tcaatcagaa gggacaaatg 2040
W--> 188 gtgagaaggg aatctgtgag gatattggcaa tcaacgtgag catcacagcg gtcaacgcgg 2100

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189	actcgggtctt	ctttagttgg	ccctcattca	acattaccga	tatagatcag	cgaaagtttc	2160
190	tcgggtacga	gctcttcttc	aaagaagtcc	cacgaatcga	tgagaacatg	acgatcgaag	2220
191	aggatcgaag	tgcggtgtgc	gattcgtggc	agagtgtctt	caaacagtac	tacgagacgt	2280
192	cgaacggtga	accgaccccc	gacattttta	tggatattgg	accgcgcgag	cgaattcggc	2340
193	cgaatacgct	ctacgcgtac	tatgtggcga	cgcagatggg	gttgcattgc	ggtgcgaaga	2400
194	acggtgtatc	gaagattggg	tttgtgagga	cgagctacta	tacgcctgat	cctccgacgt	2460
195	tggcactagc	gcaagtcgat	tcggacgcta	ttcatattac	gtgggaagcg	ccgctccaac	2520
196	cgaacggaga	cctcacgcat	tacacaatta	tgtggcgtga	gaatgaagtg	agccccgtacg	2580
197	aggaagccga	aaagttttgt	acagatgcaa	gcacccccgc	aaatcgacaa	cgcacgaaaag	2640
198	atccgaaaga	gacgattgta	gccgataagc	cagtcgatat	tccgtcatca	cgtaccgtag	2700
199	ctccgacact	tttgactatg	atgggtcacg	aagatcagca	gaaaacgtgc	gctgcaacgc	2760
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203	aagagttgga	aaaagctgaa	aatttgggaa	aagctccaaa	aactctcggg	ggaaaagaagc	3000
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205	caacgatcgc	atcaatgtat	gccttaacaa	ggaaaccgac	tacggtgccg	ggaacaagga	3120
206	ttcggctcta	cgagatctac	gaacctttac	ccggaagctg	ggcgattaat	gtatcagctc	3180
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228	agtttgactc	gaaatctgat	gtttggagct	tcggagtgtg	tctctatgaa	atggttacac	4500
229	tcggtgctca	gccatatatt	gttttgagta	atgatgaggt	gttgaattat	attggaatgg	4560
230	cccgaaggt	tatcaagaag	cccgaatgtt	gtgaaaacta	ttggtataag	gtgatgaaaa	4620
231	tgtgctggag	atactcacct	cgggatcgtc	cgacgttcct	ccagctcggt	catcttctag	4680
232	cagctgaagc	ttcaccagaa	ttccgagatt	tatcatttgt	cctaaccgat	aatcaaatga	4740
233	tccttgacga	ttcagaagca	ctggatcttg	atgatattga	tgatactgat	atgaatgatc	4800
234	aggttgctga	ggtggcaccg	gatgttgaga	acgtcgaggt	tcagagtgat	tcggaacgtc	4860
235	ggaatacga	ttcaataacc	ttgaaacagt	ttaagacgat	ccctccgatc	aatgcgacga	4920
236	cgagtcattc	gacaatatcg	attgatgaga	caccgatgaa	agcgaagcag	cgagaaggat	4980
237	cgctggatga	ggagtacgca	ttgatgaatc	atagtggagg	tccgagtgat	gcggaagtcc	5040

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238 ggacgtatgc tggatgatgga gattatgtgg agagagatgt tcgagagaat gatgtgccaa 5100
239 cgcgacgaaa tactggtgca tcaacatcaa gttacacagg tgggtgtcca tattgcctaa 5160
240 caaatcgtgg tggttcaaat gaacgaggag ccggtttcgg tgaagcagta cgattaactg 5220
241 atggtgttgg aagtggacat ttaaatgatg atgattatgt tgaaaaagag atatcatcca 5280
242 tggatacgcg ccggagcacg ggcgcctcga gctcttccta cgggtgtcca cagacgaatt 5340
243 ggagtggaaa tcgtggtgcc acgtattata cgagtaaagc tcaacaggca gcaactgcag 5400
244 cagcagcagc agcagcagct ctccaacagc aacaaaaatgg tggtcgaggc gatcgattaa 5460
245 ctcaactacc cggaactgga catttacaaat cgacacgtgg tggacaagat ggagattata 5520
246 ttgaaactga accgaaaaat tatagaaata atggatctcc atcgcgaaac ggcaacagcc 5580
247 gtgacatttt caacggacgt tcggctttcg gtgaaaaatga gcatctaata gaggataatg 5640
248 agcatcatcc acttgtctga aacccccaaa aaatcccgcc tcttaaatta taaattatct 5700
249 cccacattat catatctcta cacgaatatc ggattttttt tcagattttt tctgaaaaat 5760
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254 <210> SEQ ID NO: 12

255 <211> LENGTH: 1724

256 <212> TYPE: PRT

257 <213> ORGANISM: Caenorhabditis elegans

259 <400> SEQUENCE: 12

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261 1 5 10 15
262 Ala Ser Ile Val Glu Lys Arg Cys Gly Pro Ile Asp Ile Arg Asn Arg
263 20 25 30
264 Pro Trp Asp Ile Lys Pro Gln Trp Ser Lys Leu Gly Asp Pro Asn Glu
265 35 40 45
266 Lys Asp Leu Ala Gly Gln Arg Met Val Asn Cys Thr Val Val Glu Gly
267 50 55 60
268 Ser Leu Thr Ile Ser Phe Val Leu Lys His Lys Thr Lys Ala Gln Glu
269 65 70 75 80
270 Glu Met His Arg Ser Leu Gln Pro Arg Tyr Ser Gln Asp Glu Phe Ile
271 85 90 95
272 Thr Phe Pro His Leu Arg Glu Ile Thr Gly Thr Leu Leu Val Phe Glu
273 100 105 110
274 Thr Glu Gly Leu Val Asp Leu Arg Lys Ile Phe Pro Asn Leu Arg Val
275 115 120 125
276 Ile Gly Gly Arg Ser Leu Ile Gln His Tyr Ala Leu Ile Ile Tyr Arg
277 130 135 140
278 Asn Pro Asp Leu Glu Ile Gly Leu Asp Lys Leu Ser Val Ile Arg Asn
279 145 150 155 160
280 Gly Gly Val Arg Ile Ile Asp Asn Arg Lys Leu Cys Tyr Thr Lys Thr
281 165 170 175
282 Ile Asp Trp Lys His Leu Ile Thr Ser Ser Ile Asn Asp Val Val Val
283 180 185 190
284 Asp Asn Ala Ala Glu Tyr Ala Val Thr Glu Thr Gly Leu Met Cys Pro
285 195 200 205
286 Arg Gly Ala Cys Glu Glu Asp Lys Gly Glu Ser Lys Cys His Tyr Leu
287 210 215 220
288 Glu Glu Lys Asn Gln Glu Gln Gly Val Glu Arg Val Gln Ser Cys Trp
289 225 230 235 240
290 Ser Asn Thr Thr Cys Gln Lys Ser Cys Ala Tyr Asp Arg Leu Leu Pro

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 2050
Seq#:31; N Pos. 3,12,15,18,21
Seq#:32; N Pos. 7,8,9,12,15
Seq#:115; Xaa Pos. 4,5,11,12,16,37,38,39,41,42,43,47
Seq#:126; Xaa Pos. 20,21,22
Seq#:127; Xaa Pos. 20,21,22
Seq#:128; Xaa Pos. 20,21,22
Seq#:129; Xaa Pos. 20,21,22
Seq#:130; Xaa Pos. 20,21,22
Seq#:131; Xaa Pos. 20,21,22
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Seq#:137; Xaa Pos. 20,21,22
Seq#:138; Xaa Pos. 20,21,22
Seq#:139; Xaa Pos. 20,21,22
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Seq#:141; Xaa Pos. 20,21,22
Seq#:142; Xaa Pos. 20,21,22
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Seq#:144; Xaa Pos. 20,21,22
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Seq#:150; Xaa Pos. 20,21,22
Seq#:151; Xaa Pos. 20,21,22
Seq#:152; Xaa Pos. 20,21,22
Seq#:153; Xaa Pos. 20,21,22
Seq#:238; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96
Seq#:304; Xaa Pos. 4,5
Seq#:323; Xaa Pos. 2,3,5,6

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09963693.raw.txt

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L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2040
L:799 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:803 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:814 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:818 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:3338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
M:341 Repeated in SeqNo=115
L:3560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16
L:3578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16
L:3596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:16
L:3614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:16
L:3632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:16
L:3650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:16
L:3668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:16
L:3686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:16
L:3704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:16
L:3722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:16
L:3740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:16
L:3758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:16
L:3776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:16
L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:16
L:3812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:16
L:3830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:16
L:3848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:16
L:3866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:16
L:3884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:16
L:3902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:16
L:3920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:16
L:3938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:16
L:3956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:16
L:3974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:16
L:3992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:16
L:4010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:16
L:4028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:16
L:4046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:16
L:5914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:80
L:6809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0
L:7349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323 after pos.:0